



Atty. Dkt. No. 026032-4602

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Parks et al.

Title: VEHICLE COMPASS SYSTEM  
WITH CONTINUOUS  
AUTOMATIC CALIBRATION

Appl. No.: 10/663,954

Filing Date: 09/16/2003

Examiner: Bennett, George B.

Art Unit: 2859

**CERTIFICATE OF EXPRESS MAILING**  
I hereby certify that this correspondence is being deposited with the United States Postal Service's "Express Mail Post Office To Addressee" service under 37 C.F.R. § 1.10 on the date indicated below and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

EV 431583205 US 06/07/04  
(Express Mail Label Number) (Date of Deposit)

Roberta A. Cooper

(Printed Name)

*Roberta A. Cooper*

(Signature)

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Mail Stop RCE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document, except as noted below, is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to Pre-OG Notice from Office of Patent Legal Administration dated July 25, 2003, *Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.*

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

**RELEVANCE OF EACH DOCUMENT**

The relevance of the foreign-language documents is described in the present specification. An English translation of the foreign-language documents is not readily available. However, the absence of such translation does not relieve the PTO from its duty to consider the submitted foreign language documents (37 CFR §1.98 and MPEP §609).

Patent Nos. DE 2959504, DE 328587, DE 9848292 and JP 5763307 have been listed on the Form PTO/SB/08, but have not been submitted for review.

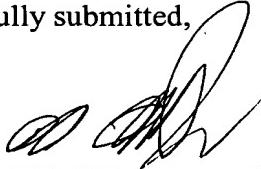
Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 06-1447. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or

even entirely missing, the Commissioner is authorized to charge the unpaid amount to  
Deposit Account No. 06-1447.

Respectfully submitted,

Date June 7, 2004

By 

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MODIFIED PTO/SB/08 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Date Submitted: June 7, 2004

(use as many sheets as necessary)

Sheet 1 of 6

**Complete if Known**

<b>Application Number</b>	10/663,954
<b>Filing Date</b>	09/16/2003
<b>First Named Inventor</b>	Jeffrey N. Parks
<b>Group Art Unit</b>	To be Determined
<b>Examiner Name</b>	To be Determined

Attorney Docket Number 026032-4602

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
A1	6,192,315			Geschke et al.	02-20-2001	
A2	5,946,813			Nachbaur et al.	09-07-1999	
A3	5,878,370			Olson	03-02-1999	
A4	5,828,984			Cage et al.	10-27-1998	
A5	5,802,727			Blank et al.	09-08-1998	
A6	5,761,094			Olson et al.	06-02-1998	
A7	5,737,226			Olson et al.	04-07-1998	
A8	5,699,044			Van Lente et al.	12-16-1997	
A9	5,664,335			Suman et al.	09-09-1997	
A10	5,644,851			Blank et al.	07-08-1997	
A11	5,632,092			Blank et al.	05-27-1997	
A12	5,581,899			Brehler et al.	12-10-1996	
A13	5,511,319			Geerlings et al.	04-30-1996	
A14	5,440,303			Kinoshita	08-08-1995	
A15	5,390,122			Michaels et al.	02-14-1995	
A16	5,353,241			Al-Attar	10-04-1994	
A17	5,351,204			Al-Attar	09-27-1994	
A18	5,349,529			Masumoto et al.	09-20-1994	
A19	5,345,382			Kao	09-06-1994	
A20	5,339,246			Kao	08-16-1994	
A21	5,333,110			Al-Attar	07-26-1994	
A22	5,323,336			Cage	06-21-1994	
A23	5,297,065			Cage et al.	03-22-1994	
A24	5,297,063			Cage	03-22-1994	
A25	5,287,297			Ihara et al.	02-15-1994	
A26	5,287,295			Ives et al.	02-15-1994	
A27	5,255,442			Schierbeek et al.	10-26-1993	
A28	5,239,264			Hawks	08-24-1993	
A29	5,235,514			Matsuzaki	08-10-1993	
A30	5,223,814			Suman	06-29-1993	
A31	5,187,872			Dufour	02-23-1993	
B32	5,165,269			Nguyen	11-24-1992	
B33	5,161,311			Esmer et al.	11-10-1992	
B34	5,151,872			Suzuki et al.	09-29-1992	
B35	5,131,155			Takano et al.	07-21-1992	

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Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<b>Application Number</b>	10/663,954
Date Submitted: June 7, 2004 <i>(use as many sheets as necessary)</i>				<b>Filing Date</b>	09/16/2003
				<b>First Named Inventor</b>	Jeffrey N. Parks
				<b>Group Art Unit</b>	To be Determined
				<b>Examiner Name</b>	To be Determined
Sheet	2	of	6	<b>Attorney Docket Number</b>	026032-4602

### U.S. PATENT DOCUMENTS

		U.S. Patent Document		
B36	5,131,154	Schierbeek et al.	07-21-1992	
B37	5,117,375	Worcester et al.	05-26-1992	
B38	5,090,231	Gallagher	02-25-1992	
B39	5,046,031	Wanous, Richard E.	09-03-1991	
B40	5,040,990	Suman et al.	08-20-1991	
B41	5,023,799	Nakayama et al.	06-11-1991	
B42	4,989,333	Helldorfer et al.	02-05-1991	
B43	4,953,305	Van Lente et al.	09-04-1990	
B44	4,924,402	Ando et al.	05-08-1990	
B45	4,890,233	Ando et al.	12-26-1989	
B46	4,882,689	Aoki	11-21-1989	
B47	4,866,627	Suyama	09-12-1989	
B48	4,862,594	Schierbeek et al.	09-05-1989	
B49	4,862,398	Shimizu et al.	08-29-1989	
B50	4,852,012	Suyama	07-25-1989	
B51	4,851,775	Kim et al.	07-25-1989	
B52	4,843,865	Fowler	07-04-1989	
B53	4,841,449	Suyama	06-20-1989	
B54	4,831,563	Ando et al.	05-16-1989	
B55	4,807,462	Al-Attar	02-28-1989	
B56	4,797,841	Hatch	01-10-1989	
B57	4,791,729	Suda	12-20-1988	
B58	4,782,453	Bauer et al.	11-01-1988	
B59	4,771,547	Akutsu et al.	09-20-1988	
B60	4,763,270	Itoh et al.	08-09-1988	
B61	4,763,269	Suyama et al.	08-09-1988	
B62	4,763,268	Itoh et al.	08-09-1988	
B63	4,763,072	Katoh et al.	08-09-1988	
C64	4,757,455	Tsunoda et al.	07-12-1988	
C65	4,751,783	Ina et al.	06-21-1988	
C66	4,750,349	Luitje	06-14-1988	
C67	4,743,913	Takai	05-10-1988	
C68	4,739,560	Akutsu et al.	04-26-1988	
C69	4,739,224	Geerlings	04-19-1988	
C70	4,738,031	Alberter et al.	04-19-1988	
C71	4,733,336	Skogler et al.	03-22-1988	

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(use as many sheets as necessary)				<b>First Named Inventor</b>	Jeffrey N. Parks
Sheet	3	of	6	<b>Group Art Unit</b>	To be Determined
				<b>Examiner Name</b>	To be Determined
				<b>Attorney Docket Number</b>	026032-4602

### U.S. PATENT DOCUMENTS

		U.S. Patent Document			
C72	4,733,179	Bauer et al.	03-22-1988		
C73	4,729,172	Alberter et al.	03-08-1988		
C74	4,728,888	Bauer, et al.	03-01-1988		
C75	4,721,364	Itoh et al.	01-26-1988		
C76	4,720,992	Hormel	01-26-1988		
C77	4,698,912	Fowler et al.	10-13-1987		
C78	4,694,583	Blaney	09-22-1987		
C79	4,686,772	Sobel	08-18-1987		
C80	4,685,053	Hattori et al.	08-04-1987		
C81	4,680,866	Johnson et al.	07-21-1987		
C82	4,677,754	Hormel	07-07-1987		
C83	4,677,381	Geerlings	06-30-1987		
C84	4,673,878	Tsushima et al.	06-16-1987		
C85	4,672,565	Kuno et al.	06-09-1987		
C86	4,660,161	Okada	04-21-1987		
C87	4,652,860	Weishaupt et al.	03-24-1987		
C88	4,646,089	Takanabe et al.	02-24-1987		
C89	4,646,015	Phillips	02-24-1987		
C90	4,642,776	Matsumoto et al.	02-10-1987		
C91	4,640,016	Tanner et al.	02-03-1987		
C92	4,622,843	Hormel	11-18-1986		
C93	4,622,754	Chujo et al.	11-18-1986		
C94	4,616,424	Arakawa et al.	10-14-1986		
C95	4,611,293	Hatch et al.	09-09-1986		
D96	4,593,359	Sadeh	06-03-1986		
D97	4,555,761	Matsumoto et al.	11-26-1985		
D98	4,546,551	Franks	10-15-1985		
D99	4,546,550	Marchent et al.	10-15-1985		
D100	4,539,760	Marchent et al.	09-10-1985		
D101	4,505,054	Clark et al.	03-19-1985		
D102	4,497,034	Kuno et al.	01-29-1985		
D103	4,445,279	Tsushima et al.	05-01-1984		
D104	4,429,469	Tsushima et al.	02-07-1984		
D105	4,425,717	Marcus	01-17-1984		
D106	4,424,631	Franks	01-10-1984		
D107	4,418,480	Garner	12-06-1983		

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				<b>First Named Inventor</b>	Jeffrey N. Parks
				<b>Group Art Unit</b>	To be Determined
				<b>Examiner Name</b>	To be Determined
Sheet	4	of	6	Attorney Docket Number	026032-4602

U.S. PATENT DOCUMENTS					
		U.S. Patent Document			
D108	4,416,067	Scherer et al.	11-22-1983		
D109	4,414,753	Moulin et al.	11-15-1983		
D110	4,413,424	Sasaki et al.	11-08-1983		
D111	4,402,142	Dinsmore	09-06-1983		
D112	4,388,558	Mizuno et al.	06-14-1983		
D113	4,373,271	Nitz	02-15-1983		
D114	4,347,730	Fisher et al.	09-07-1982		
D115	4,341,023	Marcus et al.	07-27-1982		
D116	4,336,596	Martin	06-22-1982		
D117	4,323,972	Winter	04-06-1982		
D118	4,309,828	Sakamoto	01-12-1982		
D119	4,293,815	West et al.	10-06-1981		
D120	4,277,751	Lawson et al.	07-07-1981		
D121	4,250,626	Lazar	02-17-1981		
D122	4,179,741	Rossani	12-18-1979		
D123	4,163,326	Edwards	08-07-1979		
D124	4,157,619	Zuvela	06-12-1979		
D125	4,146,970	Edwards	04-03-1979		
D126	4,143,467	Erspamer et al.	03-13-1979		
D127	4,139,892	Gudea et al.	02-13-1979		
D128	4,112,755	Sullivan	09-12-1978		
D129	4,091,543	Lapeyre	05-30-1978		
E130	4,031,630	Fowler	06-28-1977		
E131	4,030,204	Edwards	06-21-1977		
E132	4,024,382	Fowler	05-17-1977		
E133	4,023,018	Hall	05-10-1977		
E134	3,991,361	Mattern et al.	11-09-1976		
E135	3,971,981	Nakagome et al.	07-27-1976		
E136	3,943,763	Garner	03-16-1976		
E137	3,938,257	Erspamer	02-17-1976		
E138	3,903,610	Heaviside et al.	09-09-1975		
E139	3,807,666	Devlin	04-30-1974		
E140	3,778,703	Jackson	12-11-1973		
E141	3,746,842	Fowler	07-17-1973		
E142	3,744,312	Anderson	07-10-1973		
E143	3,691,643	Baker et al.	09-19-1972		
E144	3,683,668	Baker et al.	08-15-1972		
E145	3,680,951	Jordan et al	08-01-1972		
E146	3,678,593	Baker et al.	07-25-1972		
E147	3,634,946	Star	01-18-1972		

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Sheet	5	of	6	Attorney Docket Number	026032-4602

**U.S. PATENT DOCUMENTS**

		U.S. Patent Document			
E148	3,626,280		Van Englehoven	12-07-1971	
E149	3,541,853		Anderson	11-24-1970	
E150	3,415,980		Maieli et al.	12-10-1968	
E151	3,253,342		Depp	05-31-1966	
E152	3,197,880		Rice et al.	08-03-1965	
E153	2,959,865		Boose	11-15-1960	
E154	2,903,798		Taylor	09-15-1959	
E155	2,852,859		Depp	09-23-1958	
E156	2,475,593		Craddock et al.	07-12-1949	
E157	2,308,566		Noxon	01-19-1943	
E158	2,177,218		Klein et al.	10-24-1939	
E159	2,155,712		Hull	04-25-1939	
E160	2,132,168		Klein et al.	10-04-1938	
E161	2,056,715		Dinsmore	10-06-1936	
E162	2,053,154		Pierre	09-01-1936	
E163	Des 328,587		Arbisi	08-11-1992	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>				
F164		WO	82/02448		07-22-1982		
F165		DE	3613560		10-29-1987		
F166		DE	3611147		10-16-1986		
F167		DE	2922230		10-23-1980		
F168		DE	2959504				
F169		DE	5328587				
F170		DE	9848292				
F171		GB	2193321		02-03-1998		
F172		JP	9512108		12-02-1997		
F173		JP	03068811		03-25-1991		
F174		EP	0321123		06-21-1989		
F175		JP	63187113		08-02-1988		
F176		JP	62008011		01-16-1987		
F177		JP	62145111		06-29-1987		
F178		JP	6010114		01-19-1985		
F179		JP	60244644		12-04-1985		
F180		JP	59100812		06-11-1984		
F181		JP	5817313		02-01-1983		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<b>Application Number</b>	10/663,954
Date Submitted: June 7, 2004				<b>Filing Date</b>	09/16/2003
(use as many sheets as necessary)				<b>First Named Inventor</b>	Jeffrey N. Parks
Sheet	6	of	6	<b>Group Art Unit</b>	To be Determined
				<b>Examiner Name</b>	To be Determined
				Attorney Docket Number	026032-4602

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
F182		JP	5860220			04-23-1983		
F183		JP	58135412			08-12-1983		
F184		JP	5763307					
F185		JP	57116211			07-20-1982		
F186		JP	57122310			07-30-1982		
F187		JP	5516275			02-04-1980		

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	F188	TOYOTA publication regarding CORONA, 1982, 25 pgs. (not in English)	

001.1536350.1

Examiner Signature	Date Considered
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